

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Method~~ A method for transmitting data between at least one transmitter and at least one receiver, ~~in the form of~~ comprising:

transmitting packets of ~~at least one data item;~~

associating each of said ~~data-packets being associated with an identifier of said~~ packet, ~~said receiver periodically sending;~~

receiving a feedback message ~~to said transmitter from a receiver, comprising at least~~ one each feedback message including a bitmap block associated with a predetermined number of ~~data-packets having consecutive identifiers, so as to selectively inform said~~ transmitter of a state of acknowledgement which includes at least one of an

[[[]]acknowledged state or an unacknowledged[[]]] state of each of said ~~data-packets of~~ associated with said bitmap block, ~~characterized in comprising at least one step of -; and~~

associating at least one a timer with ~~at least some of~~ said bitmap blocks block.

Claim 2 (Currently Amended): ~~Data transmission~~ The method according to claim 1, ~~characterized in comprising, for a given bitmap block, a first step of~~ further comprising activating said timer, when said transmitter sends to said receiver ~~[[the]] a first of said data~~ packets having ~~of~~ consecutive identifiers associated with said bitmap block, ~~so that said timer~~ switches to said and switching said timer to an activated state.

Claim 3 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~ claims 1 and 2 Claim 1, ~~characterized in comprising, for a given bitmap block, a first step of~~ further comprising deactivating said timer after a ~~predetermined~~ maximum duration, and ~~in~~ that said data-packets of said block are then considered by said transmitter in then considering

said packets associated with said bitmap block to be in said unacknowledged state by said transmitter.

Claim 4 (Currently Amended): ~~Data transmission~~ The method according to ~~any of claims 1 to 3, characterized in comprising, for a given bitmap block, a second step of~~ Claim 1, further comprising deactivating said timer when said transmitter receives a cumulated acknowledgement of ~~at least said data-packets of~~ associated with said bitmap block, indicating that said ~~data-packets of~~ associated with said bitmap block are in said acknowledged state.

Claim 5 (Currently Amended): ~~Data transmission~~ The method according to ~~any of claims 1 to 4, characterized in comprising, for a given bitmap block, a third step of~~ Claim 1, further comprising deactivating said timer, when said transmitter receives a feedback message ~~comprising at least~~ including said bitmap block.

Claim 6 (Currently Amended): ~~Data transmission~~ The method according to claim 5, ~~characterized in that, when~~ further comprising, upon the transmitter ~~receives~~ receiving said feedback message, ~~a step of analysing said feedback message is implemented, so as to~~ determine said acknowledged or unacknowledged state of each of said ~~data-packets of~~ associated with said bitmap block.

Claim 7 (Currently Amended): ~~Data transmission~~ The method according to ~~any of claims 3 to 6~~ Claim 3, characterized in that, at the end of one of said steps of further comprising after deactivating said timer, and wherein at least one ~~data packet of~~ associated with said bitmap block being in said unacknowledged state, ~~a step of positioning at least~~

some unacknowledged data-packets of associated with said bitmap block in a retransmission queue is implemented.

Claim 8 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~ ~~claims 6 and~~ Claim 7, ~~characterized in that, at the end of said analysis step, a step of further~~ comprising after analyzing checking ~~the~~ for a presence, in said retransmission queue, of at least one acknowledged data packet of associated with said bitmap block ~~is implemented~~, and ~~in that~~, when the presence in said queue of at least one acknowledged data packet of said block has been confirmed, ~~a step of deleting said at least one of said~~ acknowledged data packet(s) packets of associated with said bitmap block from said retransmission queue is implemented.

Claim 9 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~ ~~claims~~ Claim 7 and 8, ~~characterized in that at least one step of further comprising~~ retransmitting said data packet(s) of said block positioned in said retransmission queue is implemented, and ~~a second step of activating said timer of associated with~~ said block is implemented when ~~a the~~ first of said data-packets of associated with said bitmap block positioned in said queue ~~[[are]]~~ is retransmitted.

Claim 10 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~ ~~claims 1 to 9~~ Claim 1, ~~characterized in that~~ further comprising communicating with an ARQ (Automatic Repeat Request) ~~type~~ protocol is implemented.

Claim 11 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~
~~claims 1 to 10~~ Claim 1, ~~characterized in further comprising at least one time stamping step of~~
associating a time stamp with at least some ~~data~~-packets in said unacknowledged state.

Claim 12 (Currently Amended): ~~Data transmission~~ The method according to claim
11, ~~characterized in that~~ further comprising activating said time stamp ~~is activated~~ when said
transmitter sends said associated ~~data~~ packet.

Claim 13 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~
~~claims 7 to 12~~ Claim 7, ~~characterized in that~~ wherein said positioning ~~step comprises a~~
~~preliminary sub-step of selecting data~~ includes sub-selecting packets to be positioned in said
queue, depending on ~~at least one predetermined~~ a selection criterion.

Claim 14 (Currently Amended): ~~Data transmission~~ The method according to claim
[[12]]13, ~~characterized in that~~ wherein said selection criterion takes into account at least one
~~item of the information belonging to the group composed of: the~~ of a value of said time stamp
associated with an unacknowledged ~~data~~ packet ~~of~~ associated with said block; ~~the~~ and an
ARQ class of said receiver.

Claim 15 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~
~~claims~~ Claim 13 and 14, ~~characterized in that~~ wherein said ~~selection sub-step allows the~~
~~selection of said~~ sub-selecting includes selecting an unacknowledged ~~data packet(s) of packet~~
associated with said block[[.]] and associated with a time stamp having a value greater than
or equal to said ~~predetermined~~ maximum duration.

Claim 16 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~
~~claims 11 to 15~~ Claim 11, ~~characterized in that~~ wherein said positioning step further
~~comprises,~~ includes for each of said selected data packets, ~~a sub-step of deactivating said~~
associated time stamp.

Claim 17 (Currently Amended): ~~Data transmission~~ The method according to ~~claims 9~~
~~and 13~~ Claim 9, ~~characterized in that,~~ wherein when all unacknowledged data packets of
associated with said bitmap block have been selected in said ~~selection sub-step~~ sub-selecting,
said timer takes ~~the following~~ a value $V(T)$ ~~during said second activation step:~~ wherein,

$$V(T) = t(\text{activation}) + d_{\max},$$

where $t(\text{activation})$ is ~~[[the]]~~ a current time value ~~during said second activation step~~,
and where d_{\max} is said ~~predetermined~~ maximum duration,

~~and in that~~ wherein

the timer associated with each data packet of the bitmap block positioned in said
queue is activated and takes the current time value during said retransmission of said data
packet.

Claim 18 (Currently Amended): ~~Data transmission~~ The method according to ~~any of~~
~~claims 15 to 17~~ Claim 15, ~~characterized in that,~~ at the end of said first step of wherein after
deactivating said timer,

if at least one unacknowledged data packet of said block, associated with a time stamp
having a value of less than said predetermined maximum duration, has not been selected
during said ~~selection sub-step~~ sub-selecting, ~~a third step of activating said timer of said~~
bitmap block ~~is implemented~~, so that said timer takes ~~the following~~ a value $V(T)$:

$$V(T) = V(\text{run}) + (\text{Time stamp}[i] \text{ stamp}(i) - \text{Time stamp}[j] \text{ stamp}(j)),$$

where $V(\text{run})$ is the value of said timer during ~~said step of~~ said timer running in said deactivated state,

Time ~~stamp[j]~~ stamp(j) is the greater value of said time stamps associated with said unacknowledged data-packets associated with said bitmap block selected during said ~~selection sub-step~~ sub-selecting,

and Time ~~stamp[j]~~ stamp(j) is the greater value of said time stamps associated with said unacknowledged data-packets ~~[[of]]~~ associated with said bitmap block not selected during said ~~selection sub-step~~ sub-selecting.

Claim 19 (Currently Amended): ~~Data transmission~~ The method according to claim 6 ~~and any of claims 11 to 18, characterized in that, at the end of said step of wherein after analysing~~ analyzing said feedback message, said method implements, for each of said acknowledged data-packets ~~[[of]]~~ associated with said bitmap block, ~~a step of~~ deactivating said associated time stamp.

Claim 20 (Currently Amended): ~~Data transmission~~ The method according to ~~any of claims 14 to 19~~ Claim 14, ~~characterized in that, at the end of said third step of wherein after deactivating said timer, if at least one unacknowledged data packet of said bitmap block has not been selected during said selection sub-step~~ sub-selecting depending on a decision criterion related to the ARQ class of said receiver, ~~a fourth step of~~ activating said timer of said block ~~is implemented~~, so that said timer takes ~~the following~~ a value $V(T)$:

$$V(T) = V(\text{run}) + (d_{\max} - (t - \text{Time stamp-}[i]))(i)),$$

where $V(\text{run})$ is ~~[[the]]~~ a value of said timer during ~~said step of~~ said timer running in said deactivated state,

d_{\max} is said ~~predetermined~~ maximum duration,

t is ~~[[the]]~~ a current time value,

and Time ~~stamp[i]~~ stamp (i) is the greater value of said time stamps associated with said unacknowledged ~~data~~-packets associated with said bitmap block not selected during said ~~selection sub-step~~ sub-selecting.

Claim 21-23 (Cancelled).

Claim 24 (New): A method for receiving packets by a receiver from a transmitter, each of said packets including an identifier, said method comprising:

receiving the packets from the transmitter;

transmitting a feedback message from the receiver, said feedback message including a bitmap block associated with a predetermined number of packets having said associated identifiers, so as to inform said transmitter of a state of acknowledgement regarding said packets with said corresponding identifiers, said acknowledgment state includes an acknowledged state or an unacknowledged state, wherein information in said bitmap block is associated with a timer at the transmitter.

Claim 25 (New): A source transceiver configured to transmit packets to a target transceiver, said source transceiver comprising:

a packet identifier configured to identify said packets to said target transceiver;

a transmitter configured to send said packets to said target transceiver; and

a receiver configured to receive a feedback message from said target transceiver, said feedback message including a bitmap block, wherein said bitmap block is associated with a predetermined number of said packets with corresponding identifiers, said bitmap block

further including a state indicator for each of said packets with said associated identifiers so as to be indicative of a state of acknowledgement of at least a plurality of said packets; and
a timer associated with some of said bitmap blocks.

Claim 26 (New): A target transceiver configured to receive packets from a source transceiver, said target transceiver comprising:

a receiver configured to receive said packets from said source transceiver;
a transmitter configured to send a feedback message to said source transceiver, said feedback message including a bitmap block, wherein said bitmap block is associated with a predetermined number of said packets with corresponding identifiers, said bitmap block further including a state indicator for each of said packets with said associated identifiers, so as to inform said source transceiver of a state of acknowledgement of at least a plurality of said packets, wherein said bitmap block is associated with a timer.

Claim 27 (New): A system comprising:

a source transceiver configured to transmit packets to a target transceiver, said source transceiver including

a packet identifier configured to identify said packets to said target transceiver,
a first transmitter configured to send said packets to said target transceiver,
a first receiver configured to receive a feedback message from said target transceiver, said feedback message including a bitmap block, wherein said bitmap block is associated with a predetermined number of said packets with corresponding identifiers, said bitmap block further including a state indicator for each of said packets with said associated identifiers so as to be indicative of a state of acknowledgement of at least a plurality of said packets, and

said source transceiver includes a timer associated with some of said bitmap blocks; and

a target transceiver configured to receive packets from the source transceiver, said target transceiver including

a second receiver configured to receive said packets from said source transceiver and

a second transmitter configured to send said feedback message to said source transceiver.